

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/000016

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B19/28 G06F1/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 799 197 A (JUSO HIROMI ET AL) 25 August 1998 (1998-08-25) column 5 - column 7; figure 2 -----	1-22
X	WO 01/82301 A (DATAPLAY INC) 1 November 2001 (2001-11-01) page 3 - page 20; figures 8-11 -----	1-22
X	US 2002/018410 A1 (UEKI YASUHIRO) 14 February 2002 (2002-02-14) paragraph '0058! - paragraph '0200! -----	1-22
X	EP 0 649 131 A (SONY CORP) 19 April 1995 (1995-04-19) column 7 - column 11 ----- -/-	1-22

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

14 May 2004

Date of mailing of the international search report

04/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Damp, S

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/000016

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 822 288 A (SHINADA AKIRA) 13 October 1998 (1998-10-13) column 3 - column 10; figures 3-5,12 -----	1-22
A	US 2002/171567 A1 (HANDAL ANTON N ET AL) 21 November 2002 (2002-11-21) figure 1 -----	1-22
A	US 5 680 379 A (ENDO KAZUHITO ET AL) 21 October 1997 (1997-10-21) column 6 - column 15 -----	1-22
A	US 5 808 989 A (UEKI YASUHIRO ET AL) 15 September 1998 (1998-09-15) column 19 - column 24 -----	1-22
A	EP 1 120 978 A (MATSUSHITA ELECTRIC IND CO LTD) 1 August 2001 (2001-08-01) the whole document -----	1-22

INTERNATIONAL SEARCH REPORT
Information on patent family members

Inte
rial Application No

PCT/IB2004/000016

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5799197	A	25-08-1998	JP	2721289 B2		04-03-1998
			JP	5342585 A		24-12-1993
			DE	4319077 A1		16-12-1993
WO 0182301	A	01-11-2001	AU	5166301 A		07-11-2001
			TW	509897 B		11-11-2002
			WO	0182301 A2		01-11-2001
US 2002018410	A1	14-02-2002	JP	2000011517 A		14-01-2000
			JP	11296994 A		29-10-1999
			JP	11306639 A		05-11-1999
			US	2003081522 A1		01-05-2003
			EP	0952577 A2		27-10-1999
			US	6310848 B1		30-10-2001
EP 0649131	A	19-04-1995	JP	7105622 A		21-04-1995
			JP	7111032 A		25-04-1995
			JP	7114769 A		02-05-1995
			JP	7114770 A		02-05-1995
			CN	1117183 A , B		21-02-1996
			DE	69426441 D1		25-01-2001
			DE	69426441 T2		07-06-2001
			DE	69431889 D1		23-01-2003
			DE	69431889 T2		28-08-2003
			DE	69432572 D1		28-05-2003
			DE	69432572 T2		08-04-2004
			DE	69433100 D1		02-10-2003
			EP	1028415 A2		16-08-2000
			EP	1028416 A2		16-08-2000
			EP	1028417 A2		16-08-2000
			EP	0649131 A2		19-04-1995
			US	6269061 B1		31-07-2001
US 5822288	A	13-10-1998	JP	3230319 B2		19-11-2001
			JP	6096520 A		08-04-1994
			DE	69320887 D1		15-10-1998
			DE	69320887 T2		11-02-1999
			EP	0578124 A1		12-01-1994
			US	5455812 A		03-10-1995
			US	5502700 A		26-03-1996
			US	5615187 A		25-03-1997
US 2002171567	A1	21-11-2002	NONE			
US 5680379	A	21-10-1997	DE	4313177 A1		21-10-1993
			JP	3368307 B2		20-01-2003
			JP	6103699 A		15-04-1994
			JP	3486813 B2		13-01-2004
			JP	2002124033 A		26-04-2002
			JP	2004039246 A		05-02-2004
			US	5852593 A		22-12-1998
US 5808989	A	15-09-1998	JP	8203107 A		09-08-1996
			JP	3039343 B2		08-05-2000
			JP	9147391 A		06-06-1997
			DE	69620493 D1		16-05-2002
			DE	69620493 T2		24-10-2002
			EP	0724256 A2		31-07-1996

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intel
nal Application No
PCT/IB2004/000016

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 5808989	A	US	5612939 A	18-03-1997
EP 1120978	A	01-08-2001	JP 2000059732 A EP 1120978 A1	25-02-2000 01-08-2001